



P. B. 5818 - Patent  
2280 HV Rijswijk (ZH)  
☎ (070) 3 40 20 40  
TX 31651 epo nl  
FAX (070) 3 40 30 16

Europäisches  
Patentamt

Zweigstelle  
in Den Haag  
Recherchen-  
abteilung

European  
Patent Office

Branch at  
The Hague  
Search  
division

Office européen  
des brevets

Département à  
La Haye  
Division de la  
recherche

Hague, Alison Jane  
Frank B. Dehn & Co.  
Imperial House  
15-19 Kingsway  
London WC2B 6UZ  
GRANDE BRETAGNE

FILE 60 924

18 JUL 1994

RECEIVED

ANSD

Datum/Date

15. 07. 94

Zeichen/Ref./Réf.  
23.60924

Anmeldung Nr./Application No./Demande n°./Patent Nr No./Brevet n°.  
94301479.5

Anmelder/Applicant/Demandeur/Patentinhaber/Propriétaire  
NIPPON SHEET GLASS CO. LTD.

## COMMUNICATION

The European Patent Office herewith transmits

- ☒ the European search report
- ☐ the declaration under Rule 45 EPC
- ☐ the partial European search report under Rule 45 EPC
- ☐ the supplementary European search report concerning the international application under Article 157(2) EPC relating to the above-mentioned European patent application. Copies of the documents cited in the search report are enclosed.

The following specifications given by the applicant have been approved by the Search Division :

- ☒ Abstract
- ☒ Title
- ☒ Figure

☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

☐ The following figure will be published with the abstract, since the Search Division considers that it better characterises the invention than the one indicated by the applicant.

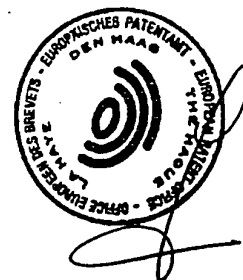
Figure:

- ☒ Additional copy(copies) of the documents cited in the European search report.

15. 07. 94

## REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



EPO Form 1507 02.93

|                     |  |  |  |  |
|---------------------|--|--|--|--|
| EPO Form 1507 02.93 |  |  |  |  |
|                     |  |  |  |  |
|                     |  |  |  |  |



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 94 30 1479

| DOCUMENTS CONSIDERED TO BE RELEVANT  |  |  |
|--|--|--|
| Category   | Citation of document with indication, where appropriate, of relevant passages                                  | Relevant to claim                                |
| X  | EP-A-0 373 265 (FORD MOTOR COMP LTD)<br>* column 8, line 48 - column 11, line 22 *<br>* claims; figures 2-11 * | 1-4  |
| X  | WO-A-89 10330 (GLASSTECH INTERNATIONAL)<br>* claims; figures *   | 1,3,4  |
| A  | US-A-4 511 386 (J.D. KELLAR ET AL)<br>* claims; figures 1-4 *  | 1-4  |
| A  | US-A-4 229 200 (S.L. SEYMOUR)<br>* claims; figures 13-20,22-24 *   | 1-4  |
| A  | US-A-4 746 348 (R.G. FRANK)<br>* claims; figures 3-4 *   | 1-4  |
| A  | FR-A-2 546 507 (PPG IND)<br>* claims; figures 1-5 *  | 1-4  |
| A  | EP-A-0 237 231 (GLASSTECH INC)<br>* the whole document *   | 1-4  |
| D  | & JP-A-62 270 429 (...)  |  |
| A  | FR-A-2 546 503 (PPG IND)<br>* the whole document *   | 1-4  |
| D  | & JP-A-59 232 926 (...)  |  |
| A  | FR-A-2 536 062 (PPG IND)<br>* the whole document *   | 1-4  |
| D  | & JP-B-62 030 136 (...)  |  |
| The present search report has been drawn up for all claims   |  |  |
| Place of search<br>BERLIN  |  | Date of completion of the search<br>30 June 1994 |
| Examiner<br>Kuehne, H-C  |  |  |
| CATEGORY OF CITED DOCUMENTS  |  |  |
| X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document  |  |  |
| T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>& : member of the same patent family, corresponding document |  |  |

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 94 30 1479

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-06-1994

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| EP-A-0373265                              | 20-06-90            | DE-D- 3887524              | 10-03-94            |
|   |                     | DE-T- 3887524              | 19-05-94            |
| WO-A-8910330                              | 02-11-89            | US-A- 4877437              | 31-10-89            |
|   |                     | CA-A- 1328738              | 26-04-94            |
|   |                     | DE-D- 68915164             | 09-06-94            |
|   |                     | EP-A- 0411032              | 06-02-91            |
|   |                     | JP-T- 3504003              | 05-09-91            |
| US-A-4511386                              | 16-04-85            | CA-A- 1199795              | 28-01-86            |
| US-A-4229200                              | 21-10-80            | NONE                       |                     |
| US-A-4746348                              | 24-05-88            | CA-A- 1306358              | 18-08-92            |
|   |                     | CN-A- 1040017              | 28-02-90            |
|   |                     | FR-A,B 2612509             | 23-09-88            |
| FR-A-2546507                              | 30-11-84            | CA-A- 1199794              | 28-01-86            |
| EP-A-0237231                              | 16-09-87            | US-A- 4661141              | 28-04-87            |
|   |                     | AU-B- 576443               | 25-08-88            |
|   |                     | AU-A- 6924287              | 17-09-87            |
|   |                     | JP-A- 62270429             | 24-11-87            |
| JP-A-62270429                             | 24-11-87            | US-A- 4661141              | 28-04-87            |
|   |                     | AU-B- 576443               | 25-08-88            |
|   |                     | AU-A- 6924287              | 17-09-87            |
|   |                     | EP-A,B 0237231             | 16-09-87            |
| FR-A-2546503                              | 30-11-84            | US-A- 4483702              | 20-11-84            |
|   |                     | CA-A- 1199793              | 28-01-86            |
|   |                     | JP-C- 1436604              | 25-04-88            |
|   |                     | JP-A- 59232926             | 27-12-84            |
|   |                     | JP-B- 62045177             | 25-09-87            |
| JP-A-59232926                             | 27-12-84            | US-A- 4483702              | 20-11-84            |
|   |                     | CA-A- 1199793              | 28-01-86            |
|   |                     | FR-A,B 2546503             | 30-11-84            |
|   |                     | JP-C- 1436604              | 25-04-88            |
|   |                     | JP-B- 62045177             | 25-09-87            |

EPO FORM P049

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 94 30 1479

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-06-1994

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| FR-A-2536062                              | 18-05-84            | US-A- 4470835              | 11-09-84            |
|   |                     | JP-C- 1420700              | 14-01-88            |
|   |                     | JP-A- 59097540             | 05-06-84            |
|   |                     | JP-B- 62030136             | 30-06-87            |
| JP-B-62030136                             | 05-06-84            | US-A- 4470835              | 11-09-84            |
|   |                     | FR-A,B 2536062             | 18-05-84            |
|   |                     | JP-C- 1420700              | 14-01-88            |
|   |                     | JP-A- 59097540             | 05-06-84            |

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82